

Product datasheet for **RC201200**

Cip4 (TRIP10) (NM_004240) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Cip4 (TRIP10) (NM_004240) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cip4 |
| Synonyms: | CIP4; HSTP; STOT; STP; TRIP-10 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC201200 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTGGGCACTGAGCTGTGGGATCAGTTCGAGGTGCTCGAGCGCCACACGCAGTGGGGCTGGACC
 TGTTGGACAGATATGTAAGTTCGTGAAAGAACGCACCGAAGTGAACAGGCTTACGCCAAACAACCTGCG
 GAGCCTGGTGAAAAATATCTGCCCAAGAGACCTGCCAAGGATGATCCTGAGTCCAAATTCAGCCAGCAA
 CAGTCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGGGAGCTGGTGGCTGAGAACC
 TCAGTGTCCGTGATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAGAGGAAGATGCACTT
 CCAAGAAGGGCGGGCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGTAAGCGTAAA
 TTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCAGACTGCTGAACGGCTAGACCAGGATATCAACG
 CCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCACCTTCGGAGTCACATGGCCGAAGAAAGCAA
 AAACGAATATGCGGCTCAACTGCAGCGTTCAACCGAGACCAAGCCACTTCTATTTTTTACAGATGCC
 CAGATATTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCTGGGTGCCGGGTATGGGCTCC
 TGTCGGAGGCCGAGCTGGAGGTGGTCCATAATAGCCAAGTGGTGGAGGGCATGAAGGTGGCTGCAAA
 TGCTGTGGATCCCAAGAAGCACTCCACGTCCTTAGAGCTGCACAAGTCAGGTTTTGCCCGCCGGGC
 GACGTGGAATTCGAGGACTTCAGCCAGCCCATGAACCGTGACCCCTCCGACAGCAGTCTGGGCACCCCT
 CGGATGGACGGCTGAATCCGAGGCCCGGGTTCGAGCCGACCAAGCGCTGGCTTTTGGCAAGAAGAA
 CAAGACAGTGGTACCGAGGATTTAGCCACTTGCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAG
 TTGGAAGAACGCAGTCGTGAACCTCAGAAGGAGGTTGACCAGAGGGAAGCCCTAAAGAAAATGAAGGATG
 TCTATGAGAAGACACCTCAGATGGGGACCCCGCCAGCTTGGAGCCCCAGATCGTGAAACCTTAGCAA
 CATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTGGCAGAAGCTGAAAGTCGAGTCCTT
 AGCAACCGGGGAGACAGCCTGAGCCGGCAGCCCGGCCTCCCGACCCCGCTAGCGCCCGCCAGACA
 GCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCAGAAGAGAGCCAGGA
 CACCCCATTTACACGGAGTTTGTAGGATTTGAGGAGGAACCCACATCCCCATAGTCACTGTGTG
 GCCATCTACCACTTTGAAGGTTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGTCTTA
 TGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGCGGAAAGAGGGAGGCGAGGGCTACGTGCCAC
 CTCTACCTCCGAGTCACGCTCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201200 protein sequence
 Red=Cloning site Green=Tags(s)

MDWGTTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQ
 QSFVQILQEVDNFAGQRELVAENLSVRVLELTKYSQEMKQERKMHFQEGRRAQQLENGFKLENSKRK
 FERDCREAEKAAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMP
 QIFDKLQDMDERRATRLGAGYGLLSEAELEVVP IIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPG
 DVEFEDFSQPMNRAPSDSSLGTPSDGRPELRGPGRSRTKRWPFGKKNKTVVTEDFSHLPPEQQRKRLQQQ
 LEERSRELQKEVDQREALKMKMDVYEKTPQMGPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVL
 SNRGDSL SRHARPPDPPASAPPDSSNSASQDTKESSEEPPESEESQDTPITYTEFDEDFEEPTSPIGHCV
 AIYHFEQSSEGTISMAEGEDLSLMEEDKGDGWTRVRRKEGGEGYVPTSYLRVTLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6668_h05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_004240

ORF Size: 1635 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004240.4](#)

RefSeq Size: 2033 bp

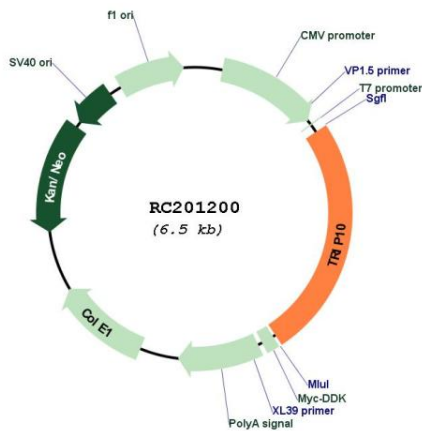
RefSeq ORF: 1638 bp

Locus ID: 9322

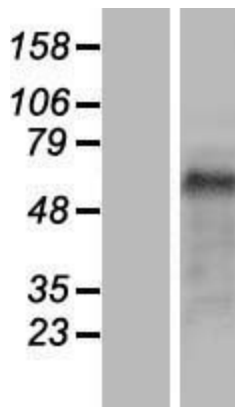
UniProt ID: [Q15642](#)

| | |
|--------------------------|---|
| Cytogenetics: | 19p13.3 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Insulin signaling pathway |
| MW: | 62.6 kDa |
| Gene Summary: | Required for translocation of GLUT4 to the plasma membrane in response to insulin signaling (By similarity). Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also promotes CDC42-induced actin polymerization by recruiting WASL/N-WASP which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. Required for the formation of podosomes, actin-rich adhesion structures specific to monocyte-derived cells. May be required for the lysosomal retention of FASLG/FASL.[UniProtKB/Swiss-Prot Function] |

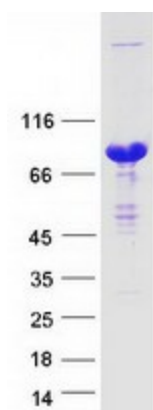
Product images:



Circular map for RC201200



Western blot validation of overexpression lysate (Cat# [LY418125]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201200 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIP10 protein (Cat# [TP301200]). The protein was produced from HEK293T cells transfected with TRIP10 cDNA clone (Cat# RC201200) using MegaTran 2.0 (Cat# [TT210002]).